# Rear view monitor system\*

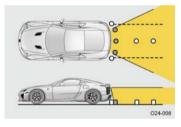
The rear view monitor assists the driver by displaying an image of the area behind the vehicle while reversing. The image displayed on the screen is the same as the image reflected in the rear view mirror.



The rear view image is displayed when Reverse is selected.

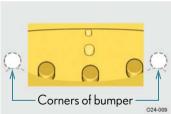
If the gear is shifted out of Reverse, the screen returns to the previous one.

# n Displayed area



The area covered by the camera is limited. Objects that are close to either corner of the bumper or under the bumper cannot be seen on the screen.

The area displayed on the screen may vary depending on vehicle orientation or road conditions.



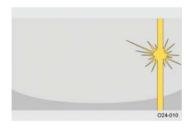
#### n Rear view monitor camera



In the following cases, it may be difficult to see images on the screen even when the system is functioning correctly:

- 1 The vehicle is in a dark area, such as at night.
- 1 The temperature near the lens is extremely high or low.
- 1 Water droplets are on the camera lens or humidity is high, such as when it rains.
- 1 Foreign matter, such as snow and mud, adheres to the camera lens.
- 1 When the camera has scratches or dirt on it.
- 1 The sun or headlights are shining directly into the camera lens.

#### n Smear effect



If a bright light, such as sunlight reflected off the vehicle body, is picked up by the camera, a smear effect\* characteristic to the camera may occur.

\*: Smear effect — A phenomenon that occurs when a bright light is picked up by the camera; when transmitted by the camera, the light source appears to have a vertical streak above and below it.

#### n Flicker effect

When the camera is used under fluorescent light, sodium lights, or mercury lights etc., the lights and the illuminated areas may appear to flicker.

### **A** CAUTION

#### n When using the rear view monitor system

Observe the following precautions to avoid an accident that could result in death or serious iniuries:

- 1 Never depend solely on the monitor system when reversing.
- 1 Always check visually and with the mirrors to confirm your intended path is clear.
- 1 Depicted distances between objects and flat surfaces differ from actual distances.

#### n Conditions which may affect the rear view monitor system

- 1 If the back of the vehicle has been hit, the camera's position and mounting angle may have changed. Have the vehicle inspected by your Lexus dealer.
- 1 Rapid temperature changes, such as when hot water is poured on the vehicle in cold weather, may cause the system to function abnormally.
- 1 If the camera lens is dirty, it cannot transmit a clear image. Rinse with water and wipe with a soft cloth. If the camera lens is extremely dirty, wash with a mild cleanser and rinse.
- 1 The displayed image may be darker and moving images may be slightly distorted when the system is cold.



### **NOTICE**

#### n Camera precautions

- 1 As the camera has a water proof construction, do not detach, disassemble or modify it. This may cause incorrect operation.
- 1 Do not allow organic solvent, car wax, window cleaner or glass coat to adhere to the camera. If this happens, wipe it off as soon as possible.
- 1 If a power washer is used for washing the vehicle, do not point it at or near the camera as doing so may damage the camera.
- 1 Do not use too much force when cleaning the camera lens.

# **Driving assist systems**

To help enhance driving safety and performance, the following systems operate automatically in response to various driving situations. Be aware, however, that these systems are supplementary and should not be relied upon too heavily when operating the vehicle.

# n ABS (Anti-lock Brake System)

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface.

#### n Brake assist

Generates an increased level of braking force after the brake pedal is depressed when the system detects a panic stop situation.

# n VSC (Vehicle Stability Control)

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

# n TRAC (Traction Control)

Helps to maintain drive power and prevent the drive wheels from spinning when starting the vehicle or accelerating on slippery roads.

#### n Hill-start assist control

Helps to reduce the vehicle's rolling backward distance when starting on an incline or slippery slope.

# n EPS (Electric Power Steering)

Employs an electric motor to reduce the amount of effort needed to turn the steering wheel.

### n VDIM (Vehicle Dynamics Integrated Management)

Provides integrated control of the ABS, brake assist, VSC, TRAC, and hill-start assist control systems.

Helps to maintain vehicle stability when swerving on slippery road surfaces by controlling the brakes and engine output.

When switched to SPORT driving mode, the control characteristics of the VDIM system are altered.

# n Active rear wing

 $\rightarrow$ P. 171

# When the ABS/VSC/TRAC/hill-start assist control systems are operating

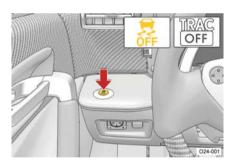


The slip indicator flashes to indicate that the ABS/VSC/TRAC/hill-start assist control systems are operating.

The stop lights and high mounted stoplight turn on when the hill-start assist control system is operating.

# Disabling the VSC/TRAC systems

If the vehicle gets stuck in fresh snow or mud, VSC/TRAC may reduce power from the engine to the wheels. You may need to turn the system off to enable you to rock the vehicle in order to free it.



Press the switch to turn off VSC and TRAC.

The VSC off indicator light and "TRAC OFF" indicator light should come on.

Press the switch again to turn the systems back on.

#### n Hill-start assist control operation conditions

- 1 The vehicle rolls backward
- 1 A forward gear is selected.
- 1 The brake pedal is not depressed.

#### n Automatic reactivation of the VSC/TRAC systems

If the VSC/TRAC systems are turned off, re-starting the engine will automatically reactivate them.

# n Sounds and vibrations caused by the ABS, brake assist, VSC, TRAC and hill-start assist control systems

- 1 A sound may be heard from the engine compartment if the brake pedal is depressed repeatedly when the engine is started or just after the vehicle begins to move. This sound does not indicate that a malfunction has occurred in any of these systems.
- 1 Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.
  - Vibrations may be felt through the vehicle body and steering.
  - A motor sound may be heard after the vehicle comes to a stop.

### n EPS operation sound

When the steering wheel is operated, a motor sound may be heard. This does not indicate a malfunction.

# ${ m n}\ \ { m Reduced}\ { m effectiveness}\ { m of}\ { m the}\ { m EPS}\ { m system}$

The effectiveness of the EPS system is reduced to prevent the system from overheating when there is frequent steering input over an extended period of time. The steering wheel may feel heavy as a result. Should this occur, refrain from excessive steering input or stop the vehicle and turn the engine off. The EPS system should return to normal within 10 minutes.

### n If the slip indicator comes on

It may indicate a malfunction in the VSC, TRAC or hill-start assist control system. Contact your Lexus dealer.

# **A** CAUTION

#### n The ABS does not operate effectively when

- 1 Tires with inadequate gripping ability are used.
- 1 The vehicle hydroplanes while driving at high speed on wet or slick roads.

# n Stopping distance when the ABS is operating will exceed that of normal conditions

The ABS is not designed to shorten the vehicle's stopping distance. Always maintain a safe distance from the vehicle in front of you in the following situations:

- 1 When driving on dirt, gravel or snow-covered roads
- 1 When driving over bumps in the road
- 1 When driving over roads with potholes or roads with uneven surfaces

#### n TRAC may not operate effectively in some conditions

Directional control and power may not be achievable while driving on slippery road surfaces, even if the TRAC system is operating.

Do not drive the vehicle in conditions where stability and power may be lost.

#### n Hill-start assist control does not operate effectively in some conditions

Do not overly rely on the hill-start assist control. The hill-start assist control may not operate effectively depending on the grade of incline and on roads covered with ice.

# n If the slip indicator flashes while driving

The slip indicator flashes to indicate that ABS, VSC, TRAC or hill-start assist control is operating. Always drive carefully. Reckless driving may cause an accident. Exercise particular care when the indicator light flashes.

# $\,\mathrm{n}\,$ When the VSC/TRAC systems are turned off

Be especially careful and drive at a speed appropriate to the road conditions. As these are the systems to help ensure vehicle stability and driving force by automatically controlling the brakes and engine output, do not turn the VSC/TRAC systems off unless necessary.

### **A** CAUTION

#### n Replacing tires

Make sure that all tires are of the specified size, brand, tread pattern and total load capacity. In addition, make sure that the tires are inflated to the recommended tire inflation pressure level.  $(\rightarrow P. 366)$ 

The ABS, VSC and TRAC systems will not function correctly if different tires are installed on the vehicle.

Contact your Lexus dealer for further information when replacing tires or wheels.

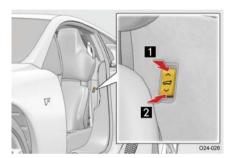
### n Handling of tires and suspension

Using tires with any kind of problem or modifying the suspension will affect the driving assist systems, and may cause a system to malfunction.

# **Active rear wing**

The LFA is equipped with an active rear wing that operates automatically while the vehicle is being driven. This active rear wing enhances aerodynamic performance especially at high speeds, contributing to a more stable ride. The active rear wing can be controlled using a switch while the vehicle is stopped.

# n Manual operation



- 1 Up
- 2 Down

#### n Automatic operation

The active rear wing will activate automatically as follows according to the selected driving mode ( $\rightarrow$ P. 104):

mph(km/h)

Driving mode	Up	Down
AUTO	81 (130)	25 (40)
SPORT NORMAL WET	50 (80)	25 (40)

Always observe the legal speed limit when driving on public roads.

# n Manual operating conditions

The active rear wing can be operated manually when the vehicle is stopped and the ignition switch is in the "ON" position.

#### n Automatic retraction

Even if the active rear wing is raised manually, it will automatically retract when the vehicle speed exceeds 16 mph (25 km/h).

(It will not rise again until the above mentioned trigger speed is reached.)

#### n When there is a malfunction in the system

"Failure of active rear wing" will be shown on the meter.  $(\rightarrow P. 325)$ Avoid high speed driving and have the vehicle inspected by your Lexus dealer.

# **A** CAUTION

#### n When manually operating the active rear wing

Observe the following precautions before operating the active rear wing. Failure to do so may result in death or serious injury.

1 Ensure that the surrounding area is free from any foreign objects that may come into contact with or get caught by the active rear wing.



- 1 When there are people near the active rear wing, make sure that there is no possibility of their clothing, personal belongings or body parts getting caught. Children especially should be warned not to touch the active rear wing while it is being operated.
- 1 If there is a risk that a foreign object may become jammed during operation, stop operation immediately or raise the active rear wing by pressing up on the switch.

# **⚠** NOTICE

# ${\it n}\ \ {\sf To}\ {\sf prevent}\ {\sf system}\ {\sf damage}$

- 1 Do not apply pressure to the active rear wing when pushing or pulling the vehicle.
- 1 Do not lean on the active rear wing.
- 1 Do not attach any accessories or other foreign objects to the active rear wing.
- 1 Do not modify or disassemble the active rear wing.
- 1 Do not subject the active rear wing to severe impacts.

# n To prevent battery discharge

Do not operate the active rear wing repeatedly while the engine is turned off.

# Launch control

When set, launch control enables the vehicle to accelerate from a standing start at 4000 rpm. Launch control uses overall optimized control that considers vehicle acceleration performance, stability and clutch durability. (Do not use launch control on public roads.)

### n Setting the system

Ensure that you are seated well back in the driver's seat with the seat belt fastened.

Make sure that the passenger is also seated well back with their seat belt fastened.

STEP 2 Start the engine. Firmly depress the brake pedal with your left foot and release the parking brake.

Continue to depress the brake pedal.

STEP 3 Select SPORT driving mode.

STEP 4 Select shift speed level 7.

STEP 5 Pull the "+" paddle shift switch to select 1st gear.

STEP 6 Pull the "-" paddle shift switch and hold it for 5 seconds.

"LAUNCH" will be displayed on the meter.

STEP 7 Release the "-" paddle shift switch.

STEP 8 Depress the accelerator pedal firmly.

Continue to depress the accelerator pedal. The engine speed will be automatically maintained at 4000 rpm. The vehicle is then ready for launch.

STEP 9 Release the brake pedal.

The vehicle will launch forward.

Once the accelerator pedal is released completely, launch control will be canceled and SPORT driving mode will be engaged.

#### n Start-off acceleration

Start-off acceleration depends on how much the accelerator pedal is depressed.

#### n Usage restrictions

- 1 Launch control cannot be set if the total mileage shown on the odometer is less than 310 miles (500 km).
- 1 Launch control cannot be set until the engine and transmission are fully warmed up. Before using launch control, warm up the vehicle by driving it.
- 1 Launch control cannot be set if there is a malfunction in the engine, transmission, drive control system or other relevant systems.
- 1 As launch control places a significant load on the vehicle's mechanisms, it cannot be used two or more times in succession. After using launch control, cruise at a normal speed for approximately 10 minutes to allow vehicle mechanisms to cool down.
- 1 To protect the systems, the number of times that launch control can be used is limited. To check how many times launch control has been used on your vehicle, contact your Lexus dealer.

# **A** CAUTION

### n Launch control precautions

- 1 Do not use on public roads.
- 1 Use only when road and ambient conditions are safe.
- 1 Before use, ensure that no people or obstructions are nearby.
- 1 Proper use of launch control requires a professional level of driving skill. When driving, always check track conditions and the surrounding area.

# **№** NOTICE

# n To prevent system damage

- 1 Always follow the correct operation procedures as described in this manual.
- 1 Only use launch control on dry, paved road surfaces, as slippery or loose road surfaces may cause damage to the vehicle's mechanisms.